# EZ HANDRAIL®
# GLASS & ALUMINUM
# RAILING SYSTEMS

*CODE COMPLIANT RAILING FOR YOUR LIFESTYLE*

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## Congratulations!

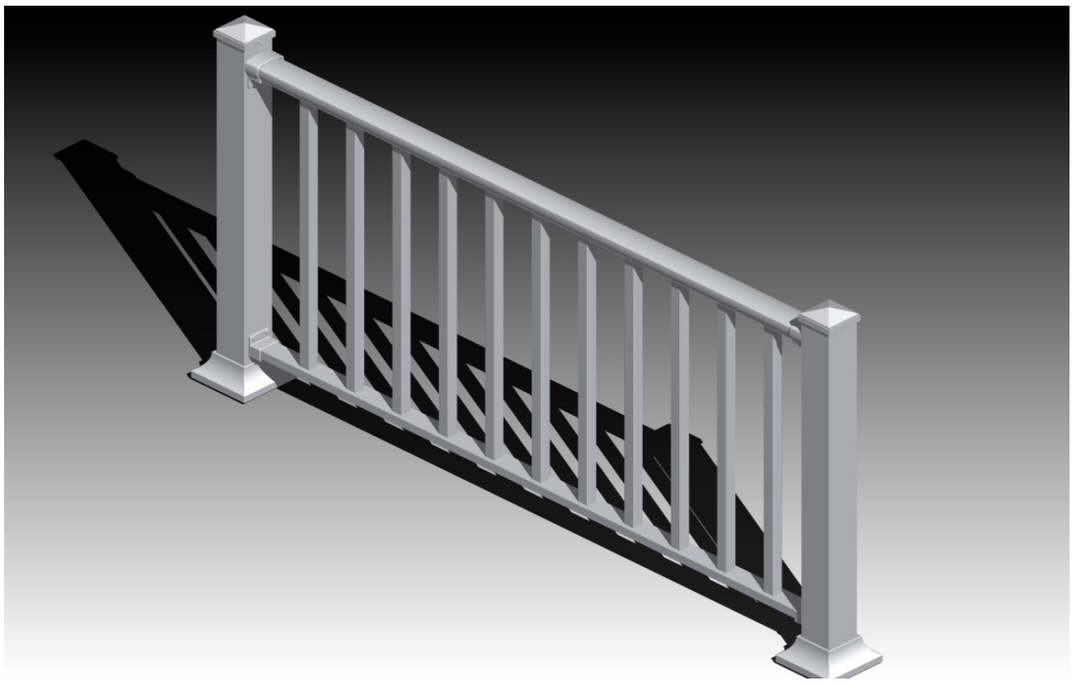
Congratulations! You are on your way to a maintenance free railing system that is easily assembled and installed. With your EZ Handrail system, you'll feel safe being protected by the tremendous strength of its aluminum alloy components, plus be comforted knowing the hardened powder coated finish will last year after year.

Please take a moment to read the instructions before you begin assembling your EZ Handrail®.

## Introduction

Check the contents of EZ Handrail box with these instructions to verify all parts are present. This will allow you to become familiar with the components of your new EZ Handrail system.

- Inspect all component parts for familiarity
- Layout recommended tools
- Before cutting any component, know its use – "measure twice and cut once."
- The included wood fasteners are ACQ treated lumber approved.
- The included concrete fasteners are for brick and concrete.



EZ Handrail® shown with EZ Posts and Base Covers sold separately.

## Tools You Will Need (not included)

| | | | |
|---|---|---|---|
| **Level** | | **Tape Measure** | |
| **Chop Saw (60 tooth wood blade)** | | **Pencil** | |
| **Screw or Impact Gun** | | **¼" Hex Bit Driver** | |
| **(2) pcs 10" 2x4 lumber to support railing during installation (optional)** | | **5/16" Hex Bit Driver** | |
| **Safety Glasses** | | **Drill Bits:**<br>**¼" wood**<br>**¼" x 3 ½" concrete**<br>**1/8" metal/wood** | |

Time Saver Tip: Cut (2) 2x4's to 6 inches and (2) 2x4's to 28 inches for residential or 34 inches for commercial height railing).

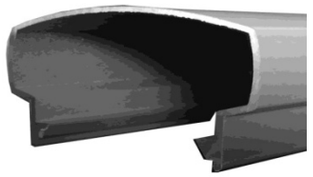
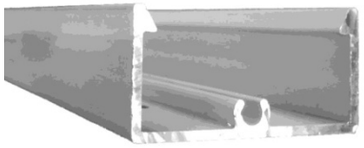
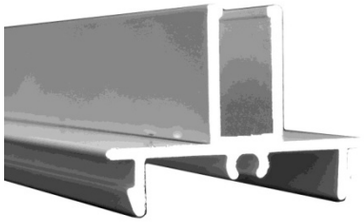
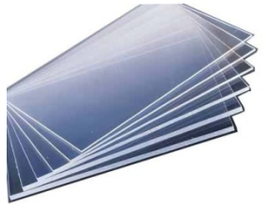
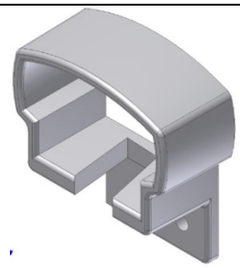
# EZ Glass Railing Box Contents

| 6 Ft. EZ Glass Railing Kit | | |
|---|---|---|
| **Qty** | **Length** | **Description** |
| 1 | 6’ | Top Cap (A) |
| 1 | 6’ | Bottom Channel (C) |
| 2 | 6’ | Glass Channel (B1 & B2) |
| 6 | Each | 8” Glass Baluster (H) |
| 2 | Each | Top Post Mount (E) |
| 2 | Each | Bottom Post Mount (D) |
| 1 | 18’ | Glass Spline (G) |
| 12 | 1” | Setting Block (F) |
| 14 | 3 3/4” | Glass Spacer (L) |
| 12 | 1” | Self Tapping Fastener (J) |
| 8 | 2 1/4” | Tapcon Fastener (N) |
| 8 | 1 1/2” | ACQ Fastener (M) |

`

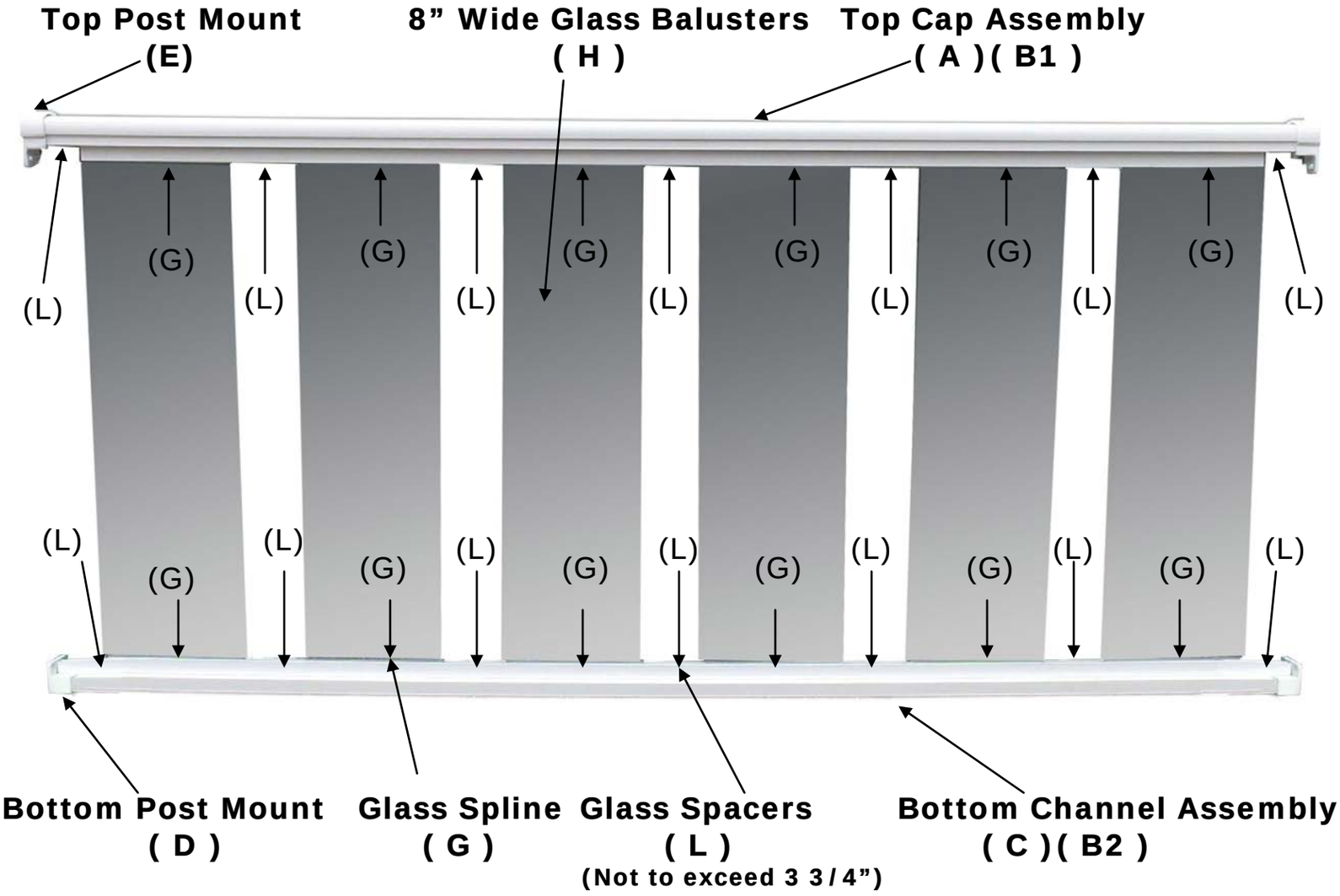
| 8 Ft. EZ Glass Railing Kit | | |
|---|---|---|
| **Qty** | **Length** | **Description** |
| 1 | 8’ | Top Cap (A) |
| 1 | 8’ | Bottom Channel (C) |
| 2 | 8’ | Glass Channel (B1 & B2) |
| 8 | Each | 8” Glass Baluster (H) |
| 2 | Each | Top Post Mount (E) |
| 2 | Each | Bottom Post Mount (D) |
| 1 | 25’ | Glass Spline (G) |
| 16 | 1” | Setting Block (F) |
| 18 | 3 3/4” | Glass Spacer (L) |
| 12 | 1” | Self Tapping Fastener (J) |
| 8 | 2 1/4” | Tapcon Fastener (N) |
| 8 | 1 1/2” | ACQ Fastener (M) |

# EZ Glass Railing Components

| | | | |
|---|---|---|---|
| Top Cap (A) |  | Glass Spline (G) | |
| Bottom Channel (C) (Preassembled w/ B1 below) |  | Setting Block (F) | |
| Glass Channel (B1, B2) (B1 and C ship preassembled) |  | Glass Spacer (L) | |
| Glass Baluster (H) |  | Mid Support (K) | |
| Top Post Mount (E) |  | ACQ Fastener (M)<br>(Wood)<br>1” Self Tapper (J) | |
| Bottom Post Mount (D) | | Tapcon (N)<br>(Concrete) | |

## EZ Glass Railing Assembly Overview

### Illustration #1




EZ Glass Handrail installed heights are 36” for residential and 42” for commercial.
Always start installation (Glass Spacer or Glass Baluster) at the midpoint of the handrail section.

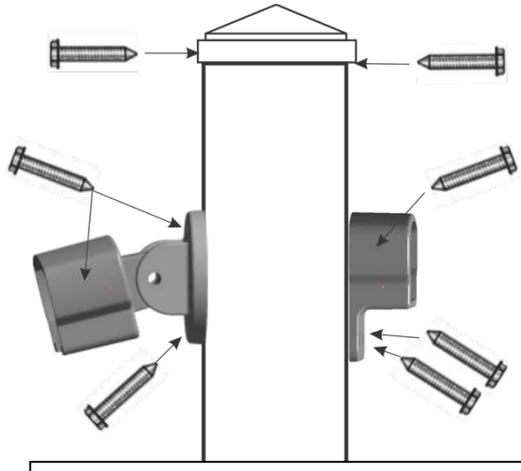
Note: EZ Posts heights are 38” for residential railing and 44” for commercial railing (sold separately). This product works with EZ ADA Handrail. Ask you local Home Depot for more information about EZ ADA Handrail.

# EZ Post Installation with Separate Mounting Flange

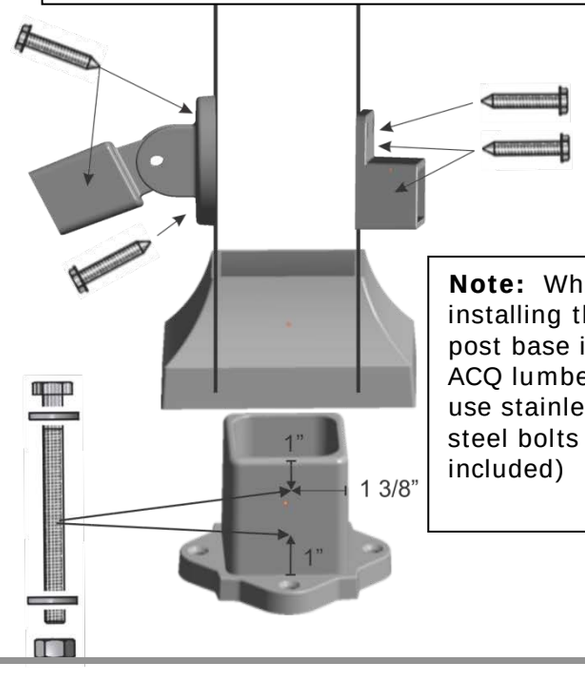
Ensure that you have a solid mounting surface for your EZ Post base fasteners. Existing posts or the EZ Posts (sold separately), may be used with this system. If you are installing EZ Posts, refer to the steps and illustration below.

1. Layout posts uniformly or as desired across entire project.
2. Ensure spacing between posts does not exceed 6 ft. for elevated decks (or greater than local codes specify).
3. Starting at a corner post, attach post flange to deck/patio using appropriate fasteners provided with the EZ Post Kit**. MAKE SURE TO USE ADDITIONAL LUMBER BLOCKING UNDER THE DECK TO SECURELY FASTEN THE FLANGE!!!** In some instances, fully threaded lag screws may be necessary – but are not included. **LAG SCREWS LOOSEN OVER TIME AND REQUIRE QUARTERLY SAFETY CHECKS**.
4. Slide 3"x3" post over post flange and plum using level.
5. Drill ¼" hole front-to-back through the entire post and post flange coming out on the back side. IT IS IMPORTANT TO DRILL HOLES WITH POST LEVEL.
6. Drill 2nd ¼" hole front-to-back. Start hole 1" above the first hole. *The vertical hole pattern creates the best deflection strength. Note that hole patterns can be modified if necessary.*
7. Fasten post to post flange with 3 ½" bolt, washer, and standard nut provided. Washers must be placed on both sides of the post.
8. After post is level and securely fastened, slide decorative base cover (optional and sold separately) over post covering the post flange.
9. Secure next post using same procedure. At this point you may size (cut) and install a railing section to verify your desired layout. Then continue to set the remainder of the posts.

**Post Mounts are installed with railing sections in STEP 5. Mounts shown for informational purpose only in this step.**

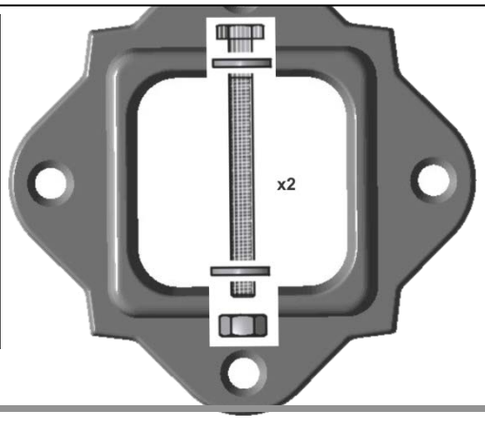


**IMPORTANT:** The distance between posts should not exceed 6 ft. when installed above ground level. Always refer to your local building department for building code clarification.



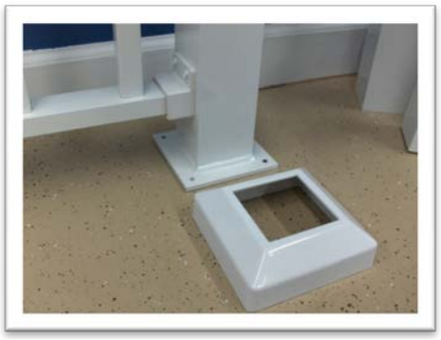

**Note:** When installing the post base into ACQ lumber, use stainless steel bolts (not included)

**IMPORTANT:** Install supporting lumber below composite/wood decking when surface mounting posts to a deck. Fasten the 4" bolts through the decking and supporting underside lumber with the provided tee nuts.



# EZ Post Installation with Welded Base Plate

Start by ensuring that you have a solid and level mounting surface for your Post(s). Washers or galvanized/stainless metal shims (not included) may be used to plum posts.



**Installation into wood/composite decking/Non ACQ lumber:**

| | |
|---|---|
| **STEP 1:** | 1. Determine the 3”x3” post location(s). Spacing between posts should be 6’ or less to meet IBC codes when installed 24” or higher above the ground.<br>2. We recommend the edge of the 5”x5” base plate is fastened at least 1 ¾” in from the edge of the deck (do not lag screw into the rim joist unless absolutely necessary).<br>3. Reinforce the decking with support lumber “backer board”. A piece of 2”x10” lumber cut to fit tightly between the joists and installed flat under the decking works great.<br>4. Square up the post with the deck and mark all (4) holes with a pencil.<br>5. At your (4) pencil marks, drill a ¼” hole through the decking and backer board.<br>6. Using a 7/16” socket bit in your drill, thread the ¼”x4” Thru Bolt into the post plate, through the deck, and through the backer board. **<br>7. Thread the Tee Nut onto the 4” Thru Bolt underneath the decking and support lumber.<br>8. Tighten post firmly to deck.<br>9. Slide on optional post base cover to hide fasteners.<br>10. Attach post cap after railing has been installed using 1” fasteners provided.<br><br>** Note: The 4” Thru Bolt fits very tightly into the post base plate (especially Textured Black Posts due to thicker powder coat finish) and in some cases must be predrilled using a ¼” drill bit. |

## Installation into concrete

| STEP 1: | |
|---|---|
| | 1. Turn the post upside down on a hard surface and prepare to drill larger holes in base plate.<br>Enlarge the (4) existing post base plate holes to 5/16” (using a 5/16” drill bit).<br>2. Determine the 3”x3” post location(s). Spacing between posts should be 6’ or less to meet IBC codes when installed 24” or higher above the ground.<br>3. We recommend the edge of the 5”x5” base plate is fastened at least 1 ½” in from the edge of any concrete face (assuming normal weight concrete).<br>4. Square up the post with the concrete surface and mark all (4) holes with a marker.<br>5. At your (4) marks, drill a 1/4” to 3 ½” or deeper hole into the concrete using a masonry bit.<br>6. Fasten post in place with provided ¼” x 3” Powers Wedge Bolts<br>7. Begin tightening the anchor with socket wrench or impact wrench by rotating clockwise and applying pressure in toward the concrete.<br>8. Continue tightening the anchor until the head is firmly seated against the post base plate. (Do not over tighten).<br>9. Slide on optional post base cover to hide fasteners.<br>Attach post cap after railing has been installed using 1” fasteners provided. |

# Constructing the Bottom Glass Channel Assembly

**STEP 1:**

1. Measure the distance between your existing posts or newly installed EZ Posts. A more accurate measurement is taken near the bottom of the posts (Illustration #2).

2. Subtract a 1/2" from the total measurement to allow your assembly and Bottom Post Mount to pass the post without scratching the finish. Example: If the measurement is 60 inches cut C & B1 to 59 1/2 inches.

3. (B1) and (C) ship preassembled from the factory. (Illustration #3).

4. Cut your Bottom Channel (C) and Bottom Glass Channel (B1) to the adjusted measurement.

Illustration #2

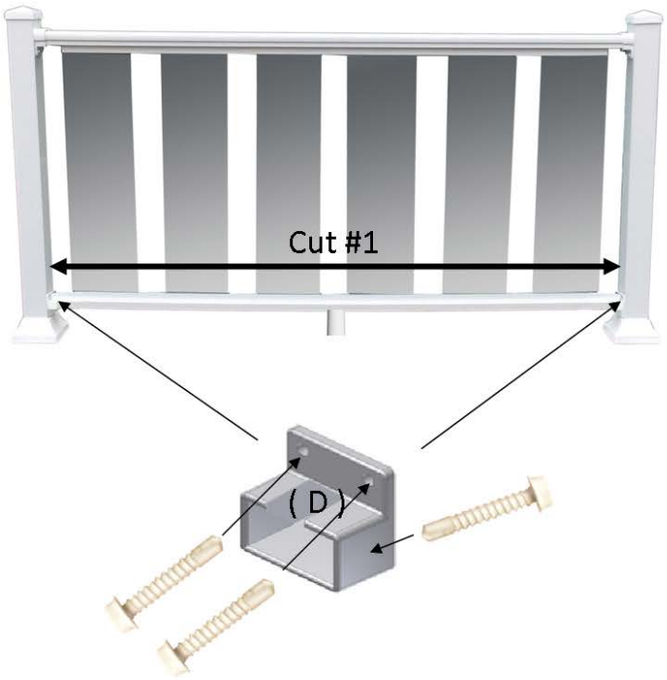
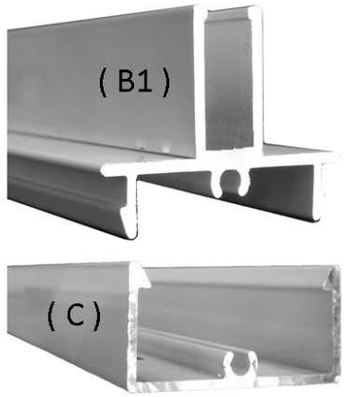



Illustration #3




Bottom Channel Assembly
(Preassembled)

# Installing the Lower Assembly

**STEP 1:**

1. Attach Mid Support (K) underneath the Bottom Assembly t the midpoint of the railing section (Illustration 3B).

2. Place the Bottom Post Mounts (D) on each end of the Bottom Channel Assembly making sure the fastener portion is facing up. (Illustration #4).

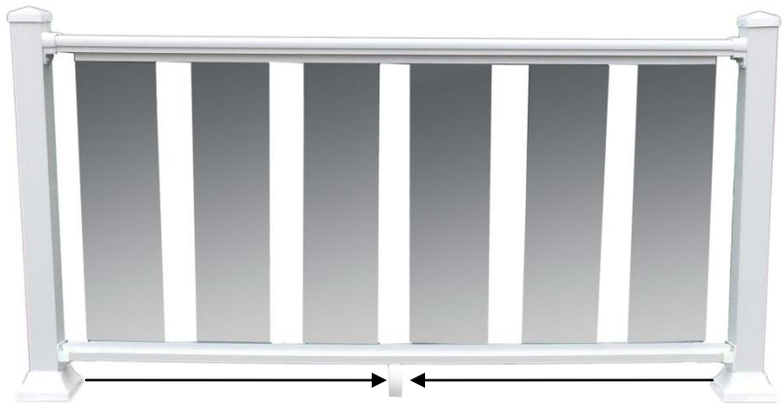
3. Attach the Bottom Channel Assembly to your post. (The maximum distance from the decking / flooring to the bottom of the Bottom Glass Channel Assembly is 3 3/4."(Illustration #4).

4. Suggestion: The width of a 2x4 is 3 1/2," some contractors will install the Bottom Channel Assembly by setting it on 2x4's at both ends.

5. Fasten the Bottom Channel Assembly Post Mounts (D) to the post using the appropriate fasteners (J, M, N). (See post detail page if necessary).

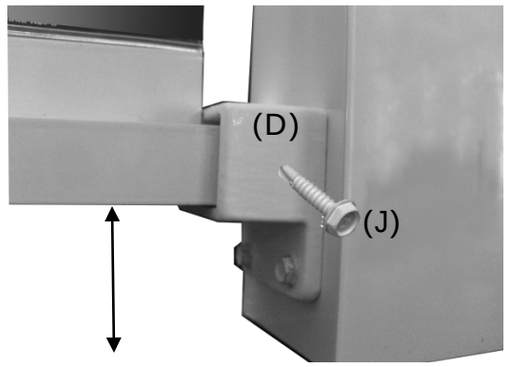
6. Secure a third fastener (J) through the side of the Top Post Mount (E) securing the Bottom Channel Assembly to the Bottom Post Mount. This fastener should be placed on the outside (non viewable side) of the railing as indicated below. Repeat at the opposite end.

Illustration #3B



Midfoot (K)

Illustration #4

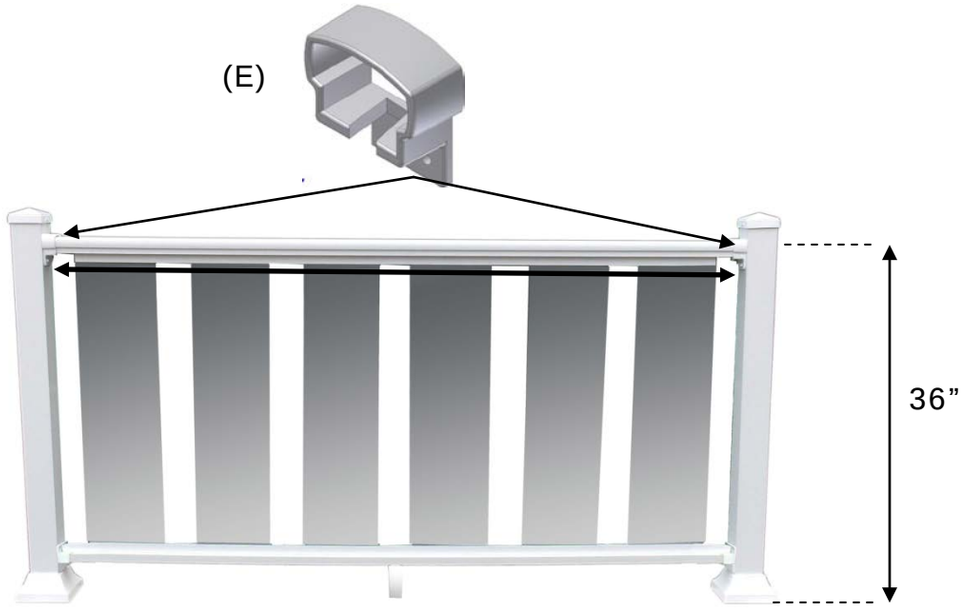



Spacing is not to exceed 3 ¾" from the bottom of the channel to the deck.

# Constructing the Upper Glass Channel Assembly

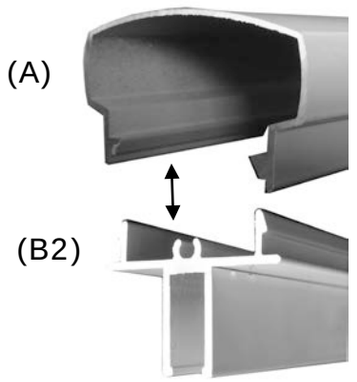
| | |
|---|---|
| **STEP 1:** | 1. Measure the distance between your existing posts or newly installed EZ Posts. A more accurate measurement is taken 36” from the deck. (Illustration #5).<br><br>2. Subtract a 1/2” from the total measurement to allow your assembly and Top Post Mount to pass the post without scratching the finish. Example: If the measurement is 60 inches cut A & B2 to 59 1/2 inches.<br><br>3. Cut Top Cap (A ) and Top Glass Channel (B2) to the <u>adjusted</u> measurement.<br><br>4. Next, snap Top Cap ( A ) with Top Glass Channel (B2). Keep the ends flush. Start at one end and press together until you hear the pieces snap, then continue to the other end. (Illustration #6).<br><br>5. After the Top Cap Assembly is snapped together, place the Top Post Mounts (E) on each end making sure the fastener portion is facing down. |

Illustration #5




Critical Measurement

Illustration #6



## Installing the Upper Assembly

| | |
|---|---|
| **STEP 1:** | 1. The inside dimension of the upper Top Glass Channel Assembly and the lower Bottom Glass Channel Assembly must be installed <u>exactly</u> 28” apart for the Glass Balusters to fit properly for residential railings (34” for commercial railings).<br><br>Suggestion: Cut (2) 2x4’s at 28” (if you have not already done so). Place the 2x4’s on end between the assemblies for proper spacing of the Top Assembly. (Illustration #7). Use 34” 2x4’s for commercial height railing.<br><br>2. After locating the placement of the Top Post Mounts, fasten the mounts to the post using the appropriate fasteners (J, M, N). (See previous post detail).<br><br>3. Place a third fastener (J) through the side of the Top Post Mount E) securing the Top Glass Channel Assembly to the Top Post Mount. This fastener should be placed on the outside (non viewable side) of the railing as indicated below. Repeat at the opposite end. |

Illustration #7

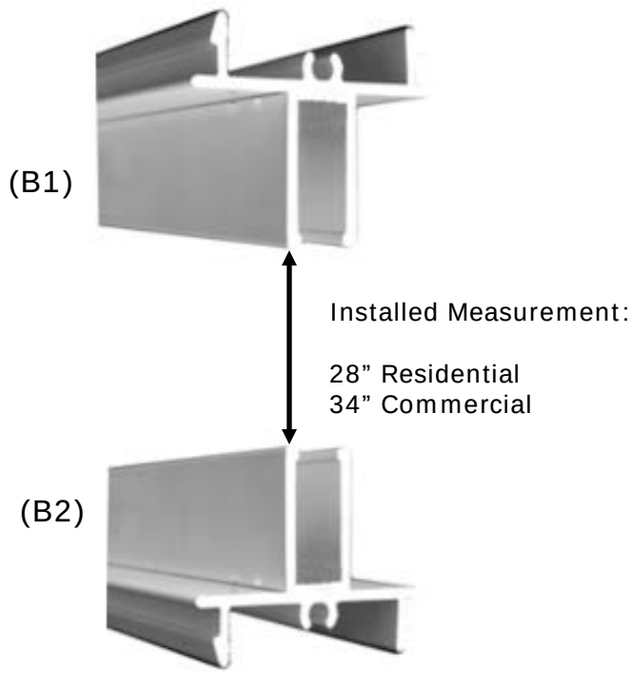
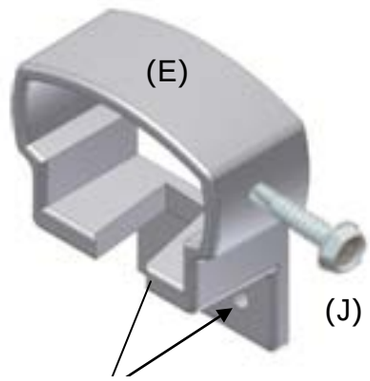



Illustration #7b



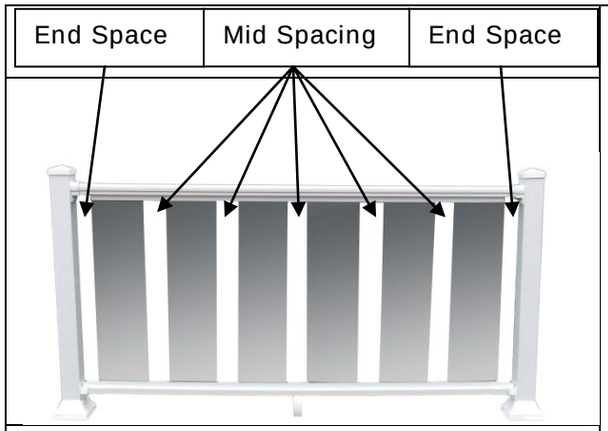

J, M, or N – see previous post detail page for appropriate fasteners

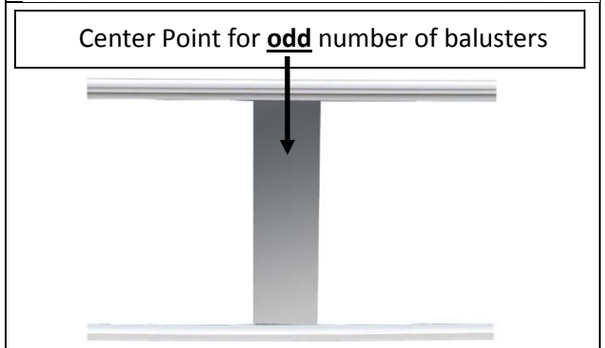
# Glass Baluster Layout

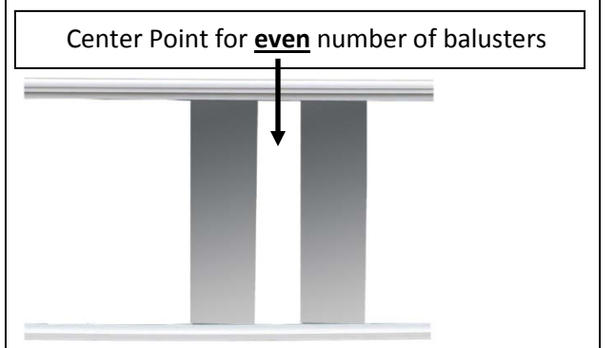
**(DO NOT INSTALL GLASS AT THIS POINT)**

After you have installed the Top Glass Assembly and Bottom Glass Assembly, you are ready to lay out your Glass Baluster pattern. Using the chart below determine the appropriate spacing between Glass Balusters. Lay out the Glass Balusters and Glass Spacers (L) in front of the railing section using the appropriate spacing. Ensure spacing does not to exceed 3 15/16" in order to comply with International Building Codes.

The Spacing Table (below right) lists different rail lengths with possible spacing scenarios. These calculations are not mandatory, only suggestions.



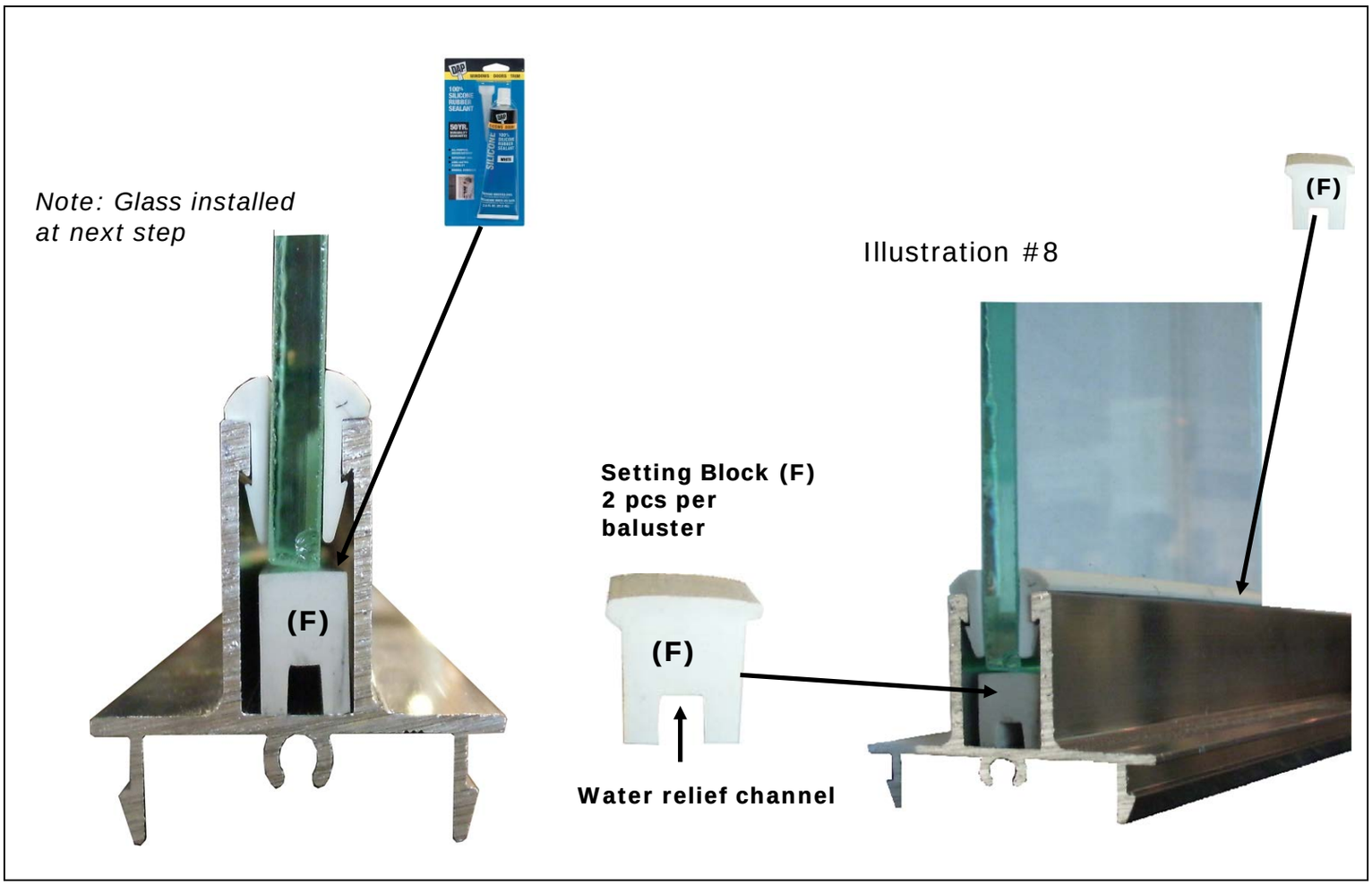



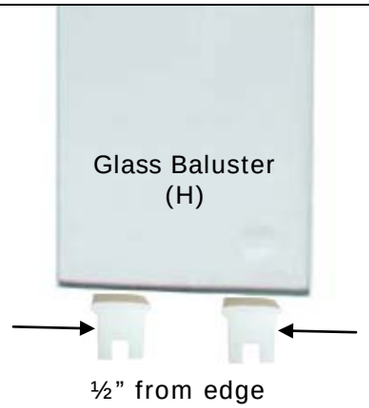
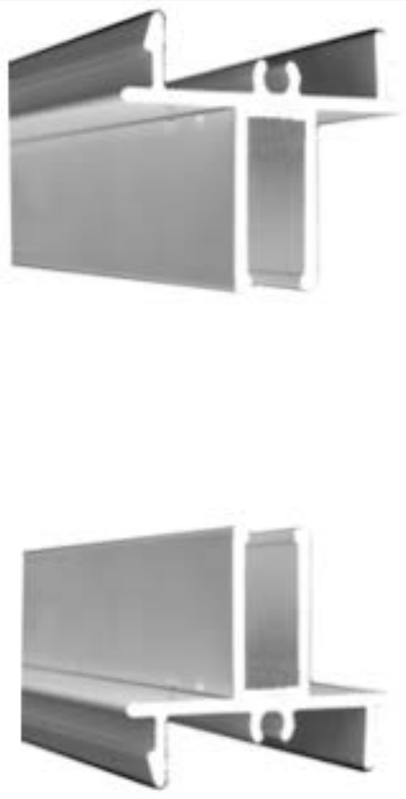

| Rail Length | Approximate End Space | Approximate Mid Spacing | Approximate End Space | Quantity of Glass Balusters |
|---|---|---|---|---|
| **96 in.** | 2 7/8 | 3 3/4 | 2 7/8 | 8 |
| **94 in.** | 1 7/8 | 3 3/4 | 1 7/8 | 8 |
| **92 in.** | 7/8 | 3 3/4 | 7/8 | 8 |
| **90 in.** | 2 1/2 | 3 | 2 1/2 | 8 |
| **88 in.** | 1 1/2 | 3 | 1 1/2 | 8 |
| **86 in.** | 3 3/4 | 3 3/4 | 3 3/4 | 7 |
| **84 in.** | 2 3/4 | 3 3/4 | 2 3/4 | 7 |
| **82 in.** | 1 3/4 | 3 3/4 | 1 3/4 | 7 |
| **80 in.** | 3 | 3 | 3 | 7 |
| **78 in.** | 2 | 3 | 2 | 7 |
| **76 in.** | 1 | 3 | 1 | 7 |
| **74 in.** | 3 5/8 | 3 3/4 | 3 5/8 | 6 |
| **72 in.** | 2 5/8 | 3 3/4 | 2 5/8 | 6 |
| **70 in.** | 1 5/8 | 3 3/4 | 1 5/8 | 6 |
| **68 in.** | 2 1/2 | 3 3/4 | 2 1/2 | 6 |
| **66 in.** | 3 3/8 | 3 | 3 3/8 | 6 |
| **64 in.** | 2 5/8 | 3 3/4 | 2 5/8 | 5 |
| **62 in.** | 3 1/2 | 3 3/4 | 3 1/2 | 5 |
| **60 in.** | 2 1/2 | 3 3/4 | 2 1/2 | 5 |
| **58 in.** | 3 | 3 | 3 | 5 |
| **56 in.** | 1 | 3 | 1 | 5 |
| **54 in.** | 3 1/2 | 3 3/4 | 3 1/2 | 5 |
| **52 in.** | 2 | 2 | 2 | 5 |
| **50 in.** | 3 3/8 | 3 3/4 | 3 3/8 | 4 |
| **48 in.** | 2 3/8 | 3 3/4 | 2 3/8 | 4 |

## Placing Setting Blocks in Bottom Glass Channel

| | |
|---|---|
| **STEP 1:** | 1. Place two Setting Blocks (F) in the Bottom Glass Channel Assembly for each Glass Baluster (H). Make sure the water relief channel is facing down. Use silicone caulk (sold separately on top of setting blocks to secure glass in place. Do not install glass at this time. The Top Assembly does not require setting blocks.<br><br>Note: Use silicone caulk to hold Setting Blocks (F) in place for stair or ramp installations. (Silicone caulk sold separately). |



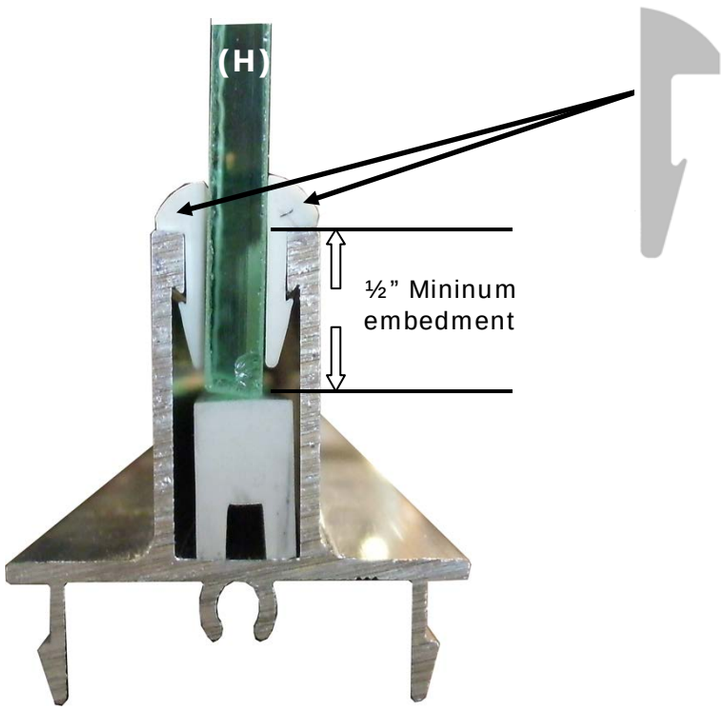
## Installing the Glass Balusters

| | | |
|---|---|---|
| **STEP 1:** | 1. Ensure the Setting Blocks (F) are 1/2 inch in on each side of the Glass Balusters. (Illustration #11). Glass must rest on the Setting Blocks. |  Illustration #9 |
| **STEP 2:** | 1. Starting with the most middle Glass Baluster, lift the Glass Baluster up into the Top Assembly. Swing the baluster over the Bottom Assembly into position. Gently set the glass onto the caulked setting block. |  |

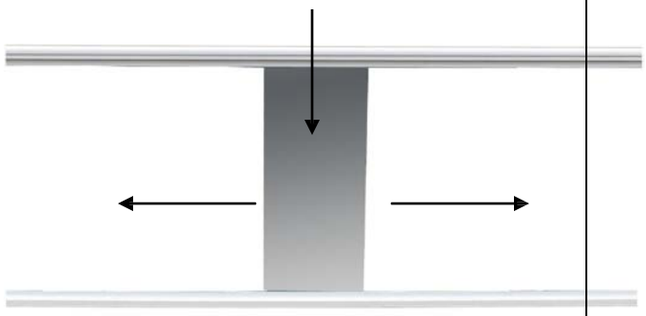
## Installing the Glass Spline

| | |
|---|---|
| **STEP 1:** | 1. After checking for the proper glass embedment of 1/2" in., apply the Glass Spline (G) around your first Glass Baluster (H) at the bottom assembly and then the top assembly. (Illustration #12) |

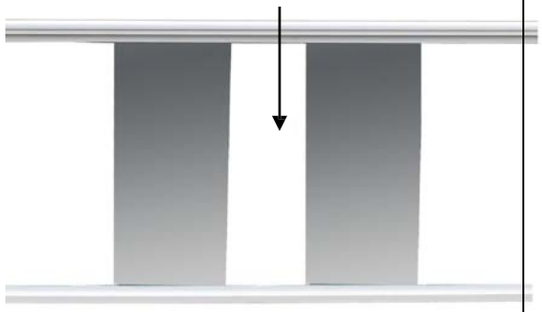
Illustration #12




Install this baluster first
if your railing section has an
ODD number of glass balusters

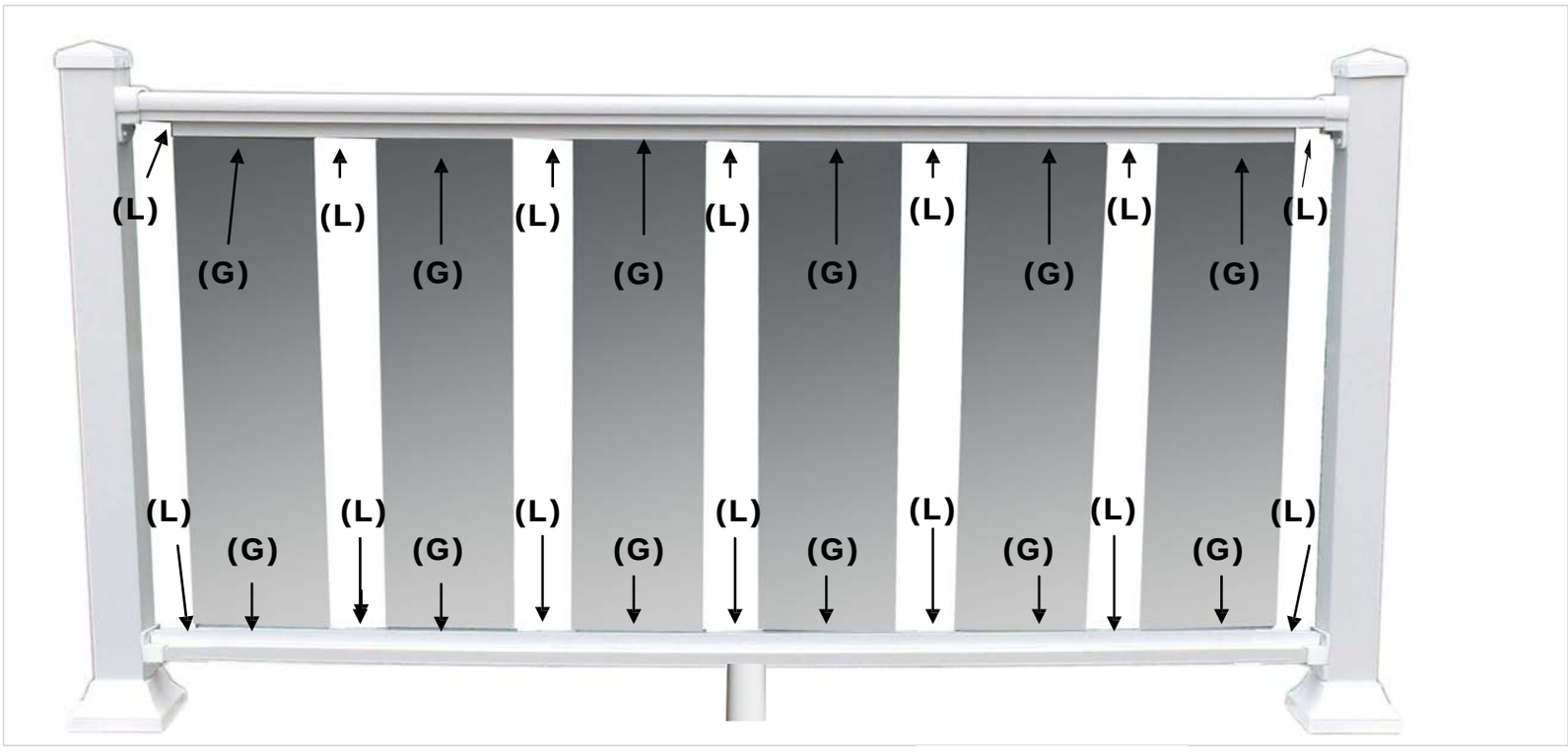


Install this baluster first
if your railing section has an
EVEN number of glass balusters



## Installing the Glass Spacers

| | |
|---|---|
| **STEP 1:** | After installing the midpoint Glass Baluster (H) with four pieces of Glass Spline (G), it is now time to install the Glass Spacers (L).<br><br>MEASURE ALL GLASS SPACERS TO ENSURE UNIFORM SPACING BETWEEN GLASS BALUSTERS. The standard<br>Glass Spacer length is approximately 3 3/4." Trim the spacers as necessary using a utility knife or razor blade. Code requires gaps between balusters to be less than 4 inches.<br><br>Install a spacer firmly against each side of the Glass Baluster at the top and at the bottom. Glass Spacers will not slide once installed.<br><br>Install the next Glass Baluster. Repeat glass installations steps until you have finished with your EZ Glass Handrail section. |



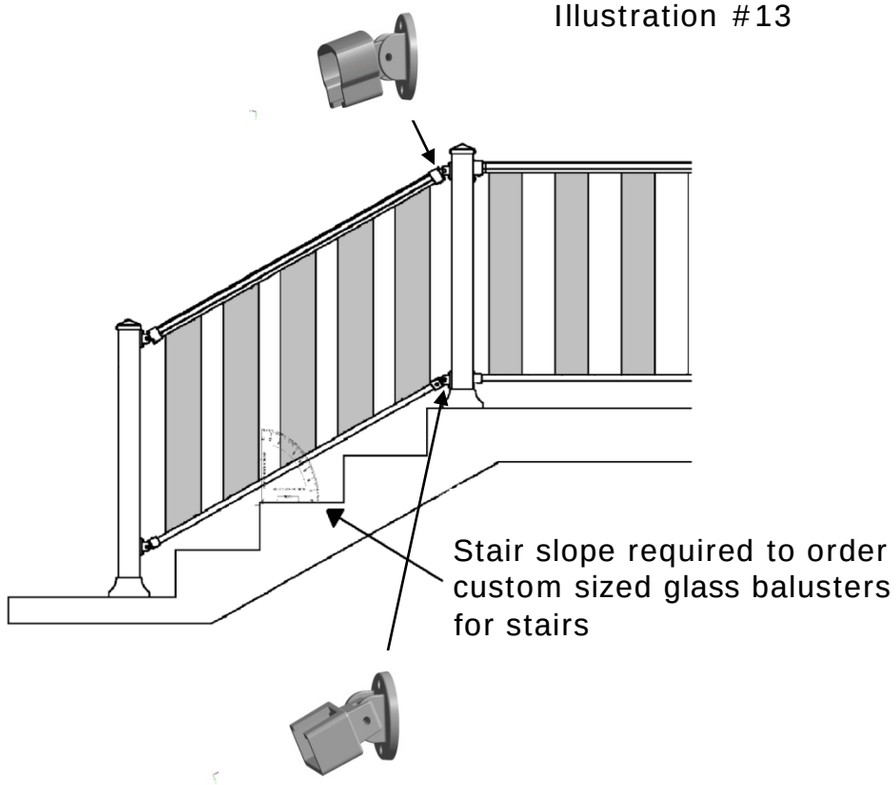

Glass Spline (G)

Glass Spacer (L)

## Stair Applications and Non 90-degree Angles

| | |
|---|---|
| | This kit is manufactured for level runs only. For stair installations, custom Glass Balusters must be ordered through The Home Depot. One EZ Handrail Pivot Mount Kit (EZPMW) is required for each stair section as well. (Illustration #13) stair components). |

Illustration #13



## Stair Railing Helpful Hints & Apps

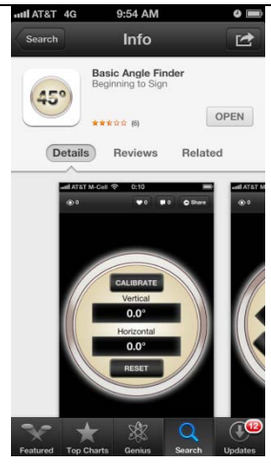
**Tip#1: Use rise and run chart for quick stair angle measurement**

| RUN (TREAD LENGTH) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| RISE | 10" | 10.5" | 11" | 11.5" | 12" | 12.5" | 13" | 13.5" | 14" |
| 5" | 27° | 25° | 24° | 23° | 23° | 22° | 21° | 20° | 20° |
| 5.25" | 28° | 27° | 26° | 25° | 24° | 23° | 22° | 21° | 21° |
| 5.5" | 29° | 28° | 27° | 26° | 25° | 24° | 23° | 22° | 21° |
| 5.75" | 30° | 29° | 28° | 27° | 26° | 25° | 24° | 23° | 22° |
| 6" | 31° | 30° | 29° | 28° | 27° | 26° | 25° | 24° | 23° |
| 6.25" | 32° | 31° | 30° | 29° | 28° | 27° | 26° | 25° | 24° |
| 6.5" | 33° | 31° | 30° | 29° | 28° | 27° | 27° | 26° | 25° |
| 6.75" | 34° | 33° | 32° | 30° | 29° | 28° | 27° | 27° | 26° |
| 7" | 35° | 34° | 32° | 31° | 30° | 29° | 28° | 27° | 27° |
| 7.25" | 36° | 35° | 33° | 32° | 31° | 30° | 29° | 28° | 27° |
| 7.5" | 37° | 36° | 34° | 33° | 32° | 31° | 30° | 29° | 28° |
| 7.75" | 38° | 36° | 35° | 34° | 33° | 32° | 31° | 30° | 29° |

**Tip#2: Smartphones and tablets have good (free) angle finder apps**

**Android: *Leveler* by chkuentz**

**iPhone: *Basic Angle Finder* by Beginning to Sign**



# EZ Gate Instructions

EZ Gates can swing left or right depending on the hinge location. Standard hinges and gravity latch are included with all EZ Gates. Note: Self closing hinges and pool child safety latch sold separately.

| | |
|---|---|
| **Step 1** | 1. Verify rough opening between posts is 1" greater than width of gate.<br>2. Set gate in opening and visually identify where hinges will attach to gate for the desired swing direction.<br>3. Measure 3" down from the very top of gate and attach hinge to appropriate gate face using the provided fasteners.<br>4. Attach 2nd hinge 3" above the very bottom of the gate to the appropriate gate face.<br>5. Measure 4" down from the very top of gate and attach **gate latch arm** to appropriate gate face using the provided fasteners.<br>6. Place (2) 2x4s on edge in the gate opening so the gate may rest in place while attaching the hinges to the post.<br>7. Level gate in position and fasten top hinge to appropriate post face **with a single fastener only.**<br>8. Confirm levelness and attach bottom hinge to post **using all three fasteners**<br>9. Complete installation of top hinge with remain two fasteners and remove 2x4's. Hold gate latch on latch arm, swing gate closed, mark holes and fasten latch to post. |

| **Available gate sizes:** | **Typical Railing Heights:** |
|---|---|
| Residential: 36"W x 36"H | Residential: 36" |
| Commercial 36"W x 42"H | Commercial: 42" |
| Pool Gate: 36"W x 48"H | Pool Fencing: 48" – 54" (check local codes) |

Photo of the EZ Gate in Bronze with pool code safety hardware:

- Self closing hinges
- Child safety pool latch

## Care and Maintenance

While most powder coat finishes are tougher and much more flexible than conventional solvent based paints, they are about the same hardness as automotive paint and can scratch. To clean a powder coated surface, use the same care and methods you would use to clean your car. Gently wash with a clean, soft cloth and a mild detergent followed by a clear water rinse. Even though most powder coatings are highly resistant, certain solvents can harm them. Avoid contact with nail polish remover, paint or lacquer thinner, motor oils, transmission and brake fluids or solvent based cleaning fluids. If any of these should contact the powder coated surface, immediately wipe the area with a soft, clean cloth, and wash as described above.

## 10-year Limited Warranty

**MADDEN MANUFACTURING**

**EZ HANDRAIL LIMITED WARRANTY**

1. For a time of 10 years the manufacture warrants that EZ Handrail will not peel or blister as a direct result of defects solely arising from its manufacture process.

**Notice of Claims**

To procure performance of Madden Manufacturing 's obligation under this warranty, you must simply notify Madden Manufacturing of your claim within thirty (30) days after the occurrence of damage covered by this warranty. Your notice must be in writing, mailed by certified mail or delivered to Madden Manufacturing, Warranty Service (PO Box 466 Lake Ozark, MO 65049).
This notice must (a) describe the defect claimed to exist, (b) give your name as it appears on this warranty, (c) give the purchase date and the name and address of the contractor who installed the product, and (d) include proof of purchase.

**Inspection**

Madden Manufacturing shall be given a reasonable opportunity to inspect the alleged defect on the property, or it may require a sample of the installed material sent in, before any repair, refinishing or replacement is begun. Madden Manufacturing or its appointee shall perform its inspection within one hundred twenty (120) days after receiving notice of the claim unless prevented by weather or other causes not under its reasonable control in which case Madden Manufacturing will inspect within a reasonable time.

**Settlement**

If after inspection it is determined that your claim is covered by this warranty, Madden Manufacturing shall, at its option, either, (a) repair, (b) refinish or (c) replace those panels found to have the defects warranted against or pay an amount in cash equivalent to the cost of the remedy elected by Madden Manufacturing based upon Madden Manufacturing reserves the right to discontinue any of its products or make any changes in any of items products or make any changes in any of its products during the term of this warranty. If the products covered by this warranty are not available, Madden Manufacturing shall have the right to substitute a product that, in Madden Manufacturing's sole discretion, is of equal quality or value. It is recognized that, in the event of such substitution, a perfect match may not always be possible. Your rights under this warranty shall end when Madden Manufacturing makes a repair, refinishing, replacement or payment under this warranty.

**Limitations**

Madden Manufacturing cannot be responsible for damages from causes outside of its control. The following are samples of external causes of product failure which are not manufacturing defects and which are not covered by this warranty:

(a) Normal weathering: normal weathering is defined as exposure to sunlight and extremes of weather and atmosphere which will cause any colored or painted surface to gradually fade, chalk or suffer an accumulation of surface dirt, stains or fungus. The

severity of any of these conditions depends upon the geographical location of your home, the cleanliness of the air in your area and many other local influences over which Madden Manufacturing has no control.

(b) Damage caused by faulty or improper installation or application of the EZ Handrail, or settlement, distortion, or warping.

(c) Earthquake, hurricane, tornado, cyclone, gale, lightning, fire, acts of God, flood, wind-borne objects, ice, or weather of a catastrophic nature as defined by the United States Weather Bureau.

(d) Damage caused by atmospheric pollution, acid rain, salt spray, and other harmful chemicals, fumes or vapors directly applied to the EZ Handrail or in the atmosphere.

(e) Lap abrasion, vandalism, misuse, physical abuse, riot, insurrection or civil disorder.

(f) Negligence in, or failure to provide, reasonable and necessary maintenance of the EZ Handrail to prevent an accumulation of surface dirt, chalk, staining, mildew or fungus.

**BRIEFLY, WE ASSUME THE RESPONSIBILITY ONLY FOR DAMAGES WHICH ARE CAUSED BY MANUFACTURING DEFECTS IN OUR PRODUCT. MADDEN MANUFACTURING SHALL NOT BE RESPONSIBLE FOR ANY INJURIES TO PERSONS OR DAMAGES TO PURCHASER'S PREMISES OR THE CONTENTS THEREIN NOR FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES. NO DISTRIBUTOR, DEALER, CONTRACTOR OR APPLICATOR IS AUTHORIZED TO OBLIGATE MADDEN MANUFACTURING IN ANY MANNER EXCEPT TO AUTHENTICATE THE ISSUANCE OF THIS WARRANTY.**

### Validation and Commencement of Warranty

This warranty shall not be valid or enforceable

(a) If it is not registered with Madden Manufacturing within 30 days after completion of installation of the product covered hereby by completing and delivering the registration form attached hereto to Madden Manufacturing,

(b) If any statement thereon or any claim for defect shall be false.

(c) If the registration form does not contain your true signature. The registration form shall be mailed to Madden Manufacturing at its address shown heron.

### Documentation of Issuance

In the event of a claim under this warranty, you agree to supply adequate and reasonable proof upon Madden Manufacturing's request that you are the person to whom the warranty was originally issued.

## Engineered Drawings